

MAR 25 2003

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(37 CFR 1.98(b))

ATTY DOCKET NO.: 172.2USDC2 SERIAL NO.: 09/801,164

APPLICANT: Bischofberger et al.

FILING DATE: 3/7/01

GROUP ART UNIT: 1653

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U.S. PATENT DOCUMENTS

EXAMR'S INITIALS	PATENT NO.	ISSUE DATE	PATENTEE	CLASS/ SUBCLASS	FILING DATE
D.L.	3,524,846	8/18/1970	Moffatt et al.	536/25,31	6/2/1967
	4,369,181	1/18/1983	Miller et al	514/40	8/5/1981
	4,590,269	5/20/1986	Prisbe et al.	544/244	3/29/1984
	4,670,424	6/2/1987	MacCoss et al.	514/81	1/6/1984
	4,724,233	2/9/1988	De Clercq et al	514/81	4/21/1986
	4,801,710	1/31/1989	MacCoss et al.	544/244	2/2/1988
	4,808,716	2/28/1989	Holy et al.	544/244	4/25/1986
	4,968,788	11/6/1990	Farquhar	536/27	1/23/1989
	5,043,339	8/27/1991	Beauchamp	514/174	12/18/1989
D.L.	5,047,533	9/10/1991	Reist et al.	544/244	1/22/1990
	5,142,051	8/25/1992	Holy et al	544/244	7/17/1987
	5,208,221	5/4/1993	Kim et al	514/81	11/29/1990
	5,247,085	9/21/1993	Harnden et al	544/244	5/29/1992
	5,302,585	4/12/1994	Yu et al.	514/81	
	5,352,786	10/4/1994	Jindrich et al.	544/243	
	5,386,030	1/31/1995	Kim et al	544/243	2/11/1993
	5,391,723	2/21/1995	Priest	536/23,1	2/16/1993
	5,495,006	2/27/1996	Climie et al.	536/24,1	3/1/1993
	5,527,803	6/18/1996	Halazy et al.	514/81	6/6/1995
D.L.	5,591,851	1/7/1997	Alexander, Petr	544/243	2/5/1996
	5,618,793	4/8/1997	Cooper et al.	514/19	8/1/1995
D.L.	5,618,803	4/8/1997	Bodor	514/81	11/15/1994
D.L.	5,618,964	4/8/1997	Cheng et al.	558/180	6/7/1995
D.L.	5,656,745	8/12/1997	Bischofberger et al.	536/25,34	9/17/1993

FOREIGN PATENT DOCUMENTS

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PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE STATEMENT
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ATTY DOCKET NO.: 172.2USDC2 SERIAL NO.: 09/801, APR 01 2003

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EXAMR'S INITIALS	PATENT NO.	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES/NO
D.L.	0 173 624 A2	3/5/1986	EUROPE	—	
	0 269 947 A1	6/8/1988	EUROPE	—	
	0 319 228 A3	11/28/1988	EUROPE	—	
	0 335 770 A2	10/4/1989	EUROPE	—	
	0 343 133 A1	11/23/1989	EUROPE	—	
	0 353 955 A2	2/7/1990	EUROPE	—	
	0 369 409 A1	5/23/1990	EUROPE	—	
	0 369 409 B1	1/4/1995	EUROPE	—	
↓	0 398 231 A2	11/22/1990	EUROPE	—	
	0 404 296 A1	12/27/1990	EUROPE	—	
D.L.	0 405 748 A1	1/2/1991	EUROPE	—	
	0 465 297 A1	1/8/1992	EUROPE	—	
	0 468 119 A1	1/29/1992	EUROPE	—	
	0 468 866 A1	1/29/1992	EUROPE	—	
	0 481 214 A1	4/22/1992	EUROPE	—	
	0 494 370 A1	7/15/1992	EUROPE	—	
	0 531 597 A1	3/17/1993	EUROPE	—	
	0 630 381 B1	12/28/1994	EUROPE	—	
	0 632 048 A1	6/23/1994	EUROPE	—	
	0.206.459	12/30/1986	EUROPE	—	
	0.253.412	1/20/1988	EUROPE	—	
	0.479.640 A2	9/23/1991	EUROPE	—	
↓	1.243.214	8/18/1971	UNITED KINGDOM	—	
D.L.	2009 834	9/17/1970	DE	—	No
D.L.	DE 41 38 584	5/27/1993	GERMANY	—	
D.L.	WO 88/05438	7/28/1988	PCT	—	

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ATTY DOCKET NO.: 172.2USDC2 SERIAL NO.: 09/801612003

APPLICANT: Bischofberger et al.

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EXAMR'S INITIALS	PATENT NO.	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES/NO
DL	WO 91/19721	12/26/1991	PCT	—	
	WO 92/01698	2/6/1992	PCT	—	
	WO 92/09611	6/11/1992	PCT	—	
	WO 92/13869	8/20/1992	PCT	—	
	WO 94/03466	2/17/1994	PCT	—	
↓	WO 94/03467	2/17/1994	PCT	—	
DL	WO 95/07919	3/23/1995	PCT	—	
DL	WO 95/07920	3/23/1995	PCT	—	

OTHER DOCUMENTS

EXAMR'S INITIALS	ARTICLE
DL	Alexander et al., "", 59:1853, COLLECT CZECH CHEM COMMUN, 1994
	Amari et al., "Isolation of experimental anti-AIDS glycerophospholipids by micro-preparative reversed-phase high-performance liquid chromatography", 590:153-161, J CHROMATOG, 1992
	Andrei et al, "Comparative Activity of Selected Antiviral Compounds against Clinical Isolates of Human Cytomegalovirus", 10(12):1026 - 1033, EUR J CLIN MICROBIOL INFECT DIS, 1991
	Andrei et al., "Comparative Activity of Selected Antiviral Compounds Against Clinical Isolates of Varicella Zoster Virus", 14:318-328, EUR J CLIN MICROBIOL INFECT DIS, 1995
↓	Bai et al, "Structural Specificity of Mucosal-Cell Transport and Metabolism of Peptide Drugs: Implication for Oral Peptide Drug Delivery", 9:969-979, PHARM RES, 1992
DL	Barnard et al, "Selective inhibition of cytomegaloviruses by 9-(3'-ethylphosphono-1'-hydroxymethyl-1'-propyloxy-methyl)guanine", 22:77-89, ANTIVIRAL RES, 1993
↓	Beres, "Synthesis and Antitumor and Antiviral Properties of 5-Halo- and 5-(Trifluoromethyl)-2'-deoxyuridine 3',5'-Cyclic Monophosphates and Neutral Triesters", 29:1243-1249, J MED CHEM, 1986
↓	Bischofberger et al., "1-[((S)-2-Hydroxy-2-Oxo-1,4,2-Dioxaphosphorinan-5-yl)Methyl] Cytosine, an Intracellular Prodrug for (S)-1-(3-Hydroxy-2-Phosphonylmethoxypropyl)Cytosine with Improved Therapeutic Index In Vivo", 38:2387-2391, ANTIMICRO AG & CHEMO, 1994
DL	Bronson et al, "Synthesis and Biological Activity of Carbocyclic Derivatives of the Potent Antiviral Agent 9-[2-(Phosphonomethoxy)Ethyl]Guanine (PMEG)", 2:685-690, BIOORG MED CHEM LETT, 1992

EXAMINER

David Lether

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EXAMR'S INITIALS	ARTICLE
<i>DJL</i>	Bruice et al., "Hydrolysis of a Phosphate Diester by Simultaneous Carboxylate and Carboxyl Group Participation in a Rigid System with Kinetically Unfavorable Rotamers Frozen Out", 117:3639-3640, J AM CHEM SOC, 1995
	Charvet et al., "Inhibition of Human Immunodeficiency Virus Type 1 Replication by Phosphonoformate-- and Phosphonoacetate--2',3'-Dideoxy-3'-thiacytidine Conjugates", 37:2216-2223, J MED CHEM, 1994
	Coates et al., "(-)-2'-Deoxy-3'-Thiacytidine Is a Potent, Highly Selective Inhibitor of Human Immunodeficiency Virus Type 1 and Type 2 Replication In Vitro", 36(4):733-739, ANTIMICRO AG & CHEMO, 1992
	Colla et al., "Synthesis and Antiviral Activity of Water-Soluble Esters of Acyclovir [9-[(2-Hydroxyethoxy)methyl]guanine]", 26:602-604, J MED CHEM, 1983
	Curley et al, "Synthesis and anti-HIV evaluation of some phosphoramidate derivatives of AZT: studies on the effect of chain elongation on biological activity", 14:345-356, ANTIVIRAL RES, 1990
	Davies et al, "2'-Nor'2'-deoxyguanosine is an effective therapeutic agent for treatment of experimental herpes keratitis", 7:119-125, ANTIVIRAL RES, 1987
	Dudley et al., "Pharmacokinetics of Stavudine in Patients with AIDS or AIDS-Related Complex", 166(3):480-485, The Journal of Infectious Diseases, 1992
	Duke et al., "In vitro and in vivo activities of phosphate derivatives of 9-(1,3-dihydroxy-2-propoxymethyl)-guanine against cytomegaloviruses", 6:299-308, ANTIVIRAL RES, 1986
	Engel, R., "Phosphonates as Analogues of Natural Phosphates", 77(3):349-367, CHEM REV, 1977
	Farquhar et al, "Biologically Reversible Phosphate-Protective Groups", 72:324-325, J PHARM SCI, 1983
	Farrow et al, "Synthesis and Biological Properties of Novel Phosphotriesters: A New Approach to the Introduction of Biologically Active Nucleotides into Cells", 33:1400-1406, J MED CHEM, 1990
	Feng et al, "Combined treatment with 2'-nor-cGMP and ganciclovir against cytomegalovirus infection in a guinea pig model", 19:193-206, ANTIVIRAL RES, 1992
	Field et al, "Efficacy of 2'-nor-cyclicGMP in treatment of experimental herpes virus infections", 6:329-341, ANTIVIRAL RES, 1986
<i>DJL</i>	Freed et al, "Evidence for Acyloxymethyl Esters of Pyrimidine 5'-Deoxyribonucleotides as Extracellular Sources of Active 5'-Deoxyribonucleotides in Cultured Cells", 38:3193-3198, BIOCHEM PHARM, 1989
<i>DJL</i>	Freeman et al, "3'-Azido-3',5'-dideoxythymidine-5'-methylphosphonic Acid Diphosphate: Synthesis and HIV-1 Reverse Transcriptase Inhibition", 35:3192-3196, J MED CHEM, 1992
<i>DJL</i>	Gabrielsen et al, "Synthesis and In Vivo Anti-RNA-Viral Evaluation of a Phosphoramidate Derivative of 6-Azauridine; Orotidylic Acid Decarboxylase Inhibitors, Pyrazofurin and 6-Azauridine; and 2-Thio-6-azauridine and its Triacetate", 17(I):149, ANTIVIRAL RES, 1992

EXAMINER

David Lister

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EXAMR'S INITIALS	ARTICLE
<i>DL</i>	Glazier et al., "Potent Topical Anti-Herpes Activity of a Lipophilic Phosphorus Prodrug for the Antiviral Agent PMEA", Page A306 - Poster, 8th International Conference on Antiviral Research, Santa Fe, NM, April 23-28, 1995
	Gumpert et al, "Structure of the DNA Ligase-Adenylate Intermediate: Lysine (epsilon-amino)-Linked Adenosine Monophosphoramidate", 68(10):2559-2563, PROC NATL ACAD SCI, 1971
	Harnden et al, "Synthesis and Antiviral Activity of 9-Alkoxypurines. 1. 9-(3-Hydroxypropoxy)- and 9-[3-Hydroxy-2-(hydroxymethyl)propoxy]purines", 33:187-196, J MED CHEM, 1990
	Hasegawa et al., "Prodrugs of 2',3'-Didehydro-3'-deoxythymidine", 82(12):1232-1236, J PHARM SCI, Dec 1993
	Hitchcock et al., "The Cyclic Congener of Cidofovir has Reduced Nephrotoxicity in Three Species", 26:A358 (poster), 8th ISAR Conference, Santa Fe, New Mexico, April 23 - 25, 1995
	Ho et al, "Intracellular Metabolism of the Antiherpes Agent (S)-1-[3-Hydroxy-2-(phosphonylmethoxy)propyl]cytosine", 41:197-202, MOL PHARM, 1992
<i>DL</i>	Holy et al, "Acyclic nucleotide analogues: synthesis, antiviral activity and inhibitory effects on some cellular and virus-encoded enzymes in vitro", 13:295-312, ANTIVIRAL RES, 1990
<i>DL</i>	Holy et al, "Synthesis of (3-Hydroxy-2-Phosphonylmethoxypropyl) Derivatives of Heterocyclic Bases", 54:2470-2501, COLLECT CZECH CHEM COMMUN, 1989
	Hostetler et al., "Synthesis and Antiretroviral Activity of Phospholipid Analogs of Azidothymidine and Other Antiviral Nucleosides", 265(11):6112-6117, J BIOL CHEM, 1990
	Jacobson et al., "Phase I Trial of Valaciclovir, the L-Valyl Ester of Acyclovir, in Patients with Advanced Human Immunodeficiency Virus Disease", 38(7):1534-1540, ANTIMICRO AG & CHEMO, Jul-1994
	Jahne et al., "Preparation of Carbocyclic Phosphonate Nucleosides", 33(37):5335-5338, TET LETT, 1992
	Jones et al., "Minireview: nucleotide prodrugs", 27:1-17, ANTIVIRAL RES, 1995
	Juodka et al, "Synthesis of Diribonucleoside phospho-(P->N)-Amino Acid Derivatives", 39:963-968, COLLECT CZECH CHEM COMMUN, 1974
	Karkas et al, "Stereochemical considerations in the enzymatic phosphorylation and antiviral activity of acyclonucleosides. I. Phosphorylation of 2'-nor-2'-deoxyguanosine", 911:127-135, BIOCHEM BIOPHYS ACTA, 1987
<i>DL</i>	Keim et al, "Amphotericin B Methyl Ester Hydrochloride and Amphotericin B: Comparative Acute Toxicity", 179(4073):584-585, SCIENCE, 1973
<i>DL</i>	Kern et al., "Comparison of Efficacy and Toxicity of HPMPC and Cyclic HPMPC in Animal Models for Severe Herpesvirus Infections", 26:A329 (poster), 8th ISAR Conference, Santa Fe, New Mexico, April 23 - 25, 1995

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David L. Blair

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ATTY DOCKET NO. 1442 USDC2 SERIAL NO.: 09/801,164

TECH CENTER 1600/2900
APPLICANT: Bischofberger et al.

FILING DATE: 3/7/01

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EXAMR'S INITIALS	ARTICLE
<i>DL</i>	Kim et al, "A Novel Synthesis of 1-OXA-HPMPA: A Potent Antiviral Agent Against Herpes Viruses", 33 (1):pp. 25-28, TET LETT, 1992
	Kim et al, "Acyclic Purine Phosphonate Analogues as Antiviral Agents. Synthesis and Structure-Activity Relationships", 33:1207-1213, J MED CHEM, 1990
	Kim et al., "Synthesis and HIV Activity of Phosphonate Isosteres of D4T Monophosphate", 5(2):367-370, BIOORG MED CHEM LETT, 1992
	Kjaersgaard et al., "Synthesis of 5-Homologous AZT and D4T Derivatives", 46:1016-1020, ACTA CHEMICA SCANDINAVICA, 1992
	Kraus, "New Phosphonate Analogues of 3'-thia-2',3'-dideoxycytidine (BCH-189). Synthesis and Anti-HIV Evaluation.", 12(2):157-162, NUCLS & NUCLT, 1993
	Kumar et al., "Synthesis and Biological Evaluation of Some Cyclic Phosphoramidate Nucleoside Derivatives", 33:2368-2375, J MED CHEM, 1990
	Lee et al., "Tissue Distribution and Bioavailability of Cyclic HPMPC, an Intracellular Prodrug of HPMPC", 26:A340 (Poster), 8th ISAR Conference, Santa Fe, New Mexico, 1995
<i>DL</i>	Li et al, "Activity of (S)-1-(3-hydroxy-2-phosphonylmethoxypropyl)cytosine (HPMPC) against guinea pig cytomegalovirus infection in cultured cells and in guinea pigs", 13:237-252, ANTIVIRAL RES, 1990
<i>DL</i>	McGuigan et al, "Synthesis and anti-HIV activity of some haloalkyl phosphoramidate derivatives of 3'-azido-3'deoxythymidine (AZT): potent activity of the trichloroethyl methoxylaninyl compound", 15:255-263, ANTIVIRAL RES, 1991
	McGuigan et al, "Phosphoramidate derivatives of AZT as inhibitors of HIV: studies on the carboxyl terminus", 4(2):97-101, ANTIVIRAL CHEM & CHEMO, 1993
	Midoux, "Drug Targeting: Anti-HSV-1 Activity of Mannosylated Polymer-Bound 9-(2-Phosphonylmethoxyethyl Adenine", 167(3):1044-1049, BIOCHEM BIOPHYS RES COMM, 1990
	Mukaiyama et al, "Synthesis of Oligothymidylates and Nucleoside Cyclic Phosphates by Oxidation-Reduction Condensation", 94(24):8528-8532, J AM CHEM SOC, 1972
	Mullah et al., "Potential Prodrug Derivatives of 2',3'-Didehydro-2',3'-dideoxynucleosides. Preparations and Antiviral Activities", 35:2728-2735, J MED CHEM, 1992
	Nelson et al., "", 109:4058, J AM CHEM SOC, 1987
	Nielsen et al, "Evaluation of Glycolamide Esters and Various Other Esters of Aspirin as True Aspirin Produgs", 32:727-734, J MED CHEM, 1989
<i>DL</i>	Orchin, "The Vocabulary of Organic Chemistry", p. 283, , 1980
<i>DL</i>	Palu et al, "Cellular uptake of phosphonylmethoxyalkylpurine derivatives", 16:115-119, ANTIVIRAL RES, 1991

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David Liles

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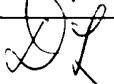
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ATTY DOCKET NO.: 172.203DC2 SERIAL NO.: 09/801,164

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EXAMR'S INITIALS	ARTICLE
	Reist et al, "Synthesis of Acyclonucleoside Phosphonates as Antiviral Agents Against Cytomegalovirus", 13(1-3):539-550, NUCLS & NUCLT, 1994
	Reymen et al., "Antiviral Activity of Selected Nucleoside Analogues Against Human Herpes Virus Type 6", 14:567-570, NUCLS & NUCLT, 1995
	Rosenberg et al, "Synthesis of Potential Prodrugs and Metabolites of 9-(S)-(3-Hydroxy-2-Phosphonylmethoxypropyl)Adenines", 52:2792-2800, COLLECT CZECH CHEM COMMUN, 1987
	Rosenberg et al, "Phosphonylmethoxyalkyl and Phosphonylalkyl Derivatives of Adenine", 53:2753-2777, COLLECT CZECH CHEM COMMUN, 1988
	Sastray et al, "Membrane-Permeable Dideoxyuridine 5'-Monophosphate Analogue Inhibits Human Immunodeficiency Virus Infection", 41:441-445, MOL PHARM, 1992
	Serafinowska et al., "Synthesis and in Vivo Evaluation of Prodrugs of 9-[2-(Phosphonomethoxy)ethoxy]adenine", 38:1372-1379, J MED CHEM, 1995
	Sergheraert et al., "Synthesis and Anti-HIV Evaluation of D4T and D4T 5'-Monophosphate Prodrugs", 36:826-830, J MED CHEM, 1993
	Shaw et al., "Salicylate Ester Prodrugs of Cyclic HPMPC. I. Pharmacokinetics in Dogs.", 0.696527778, 7th North American ISSX Meeting, San Diego, CA, Oct. 20th - 24th, 1996
	Smee et al., "Potent Anti-Murine Cytomegalovirus Activity and Reduced Nephrotoxicity of Ganciclovir Cyclic Phosphonate", 40(8):1964-1966, ANTIMICRO AG & CHEMO, Aug-1996
	Snoeck et al, "Antiviral activity of anti-cytomegalovirus agents (HPMPC, HPMPA) assessed by a flow cytometric method and DNA hybridization technique", 16:1-9, ANTIVIRAL RES, 1991
	Snoeck et al, "New acyclic nucleoside phosphonate derivatives as inhibitors of human cytomegalovirus", p. 327, Abstract No. 1334, 29th INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, Sept. 17 - 20, 1989
	Snoeck et al., "", pp. 337, Progress in Cytomegalovirus Research, 1991
	Srivastva et al, "Bioreversible Phosphate Protective Groups: Synthesis and Stability of Model Acyloxymethyl Phosphates", 12:118-129, BIOORG CHEM, 1984
	Starrett et al, "Synthesis and in vitro evaluation of a phosphonate prodrug: bis(pivaloyloxymethyl) 9-(2-phosphonylmethoxyethyl)adenine", 19:267-273, ANTIVIRAL RES, 1992
	Starrett et al., "Synthesis, Oral Bioavailability Determination, and in Vitro Evaluation of Prodrugs of the Antiviral Agent 9-[2-(Phosphonomethoxy)ethyl]adenine (PMEA)", 37:1857-1864, J MED CHEM, 1994
	Sueoka et al., "Salicylate Ester Prodrugs of Cyclic HPMPC. II. Species Differences in Metabolism In Vitro", 0.632638889, 7th North American ISSX Meeting, San Diego, CA, Oct. 20th - 24th, 1996

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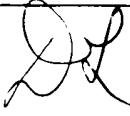
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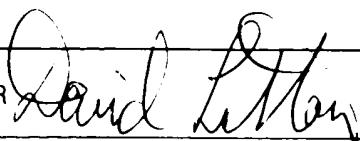
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EXAMR'S INITIALS	ARTICLE
	Sundaralingam et al., "Stereochemistry of Nucleic Acids and Their Constituents. XXVII. The Crystal Structure of 5'-Methyleneadenosine 3',5'-Cyclic Monophosphate Monohydrate, a Biologically Active Analog of the Secondary Hormonal Messenger Cyclic Adenosine 3',5'-Monophosphate...", 94(14):5070-5076, J AM CHEM SOC, 1972
	Tolman et al, "2'-nor-cGMP: A seco-Cyclic Nucleotide with Powerful Anti-DNA-Viral Activity", 128(3):1329-1335, BIOCHEM BIOPHYS RES COMM, 1985
	Trost et al., "", 2:777-778, Comprehensive Organic Synthesis, 1991
	Wolff-Kugel et al, "Synthesis of New Carbocyclic Phosphonate Analogs of Dideoxypurine Nucleotides", 32(44):6341-6344, TET LETT, 1991
	Wolff-Kugel et al., "Studies Towards the Synthesis of the Saturated and Unsaturated Carbocyclic Methylene Phosphonate Analogs of Dideoxyadenosine", 12(3&4):279-294, NUCLS & NUCLT, 1993
	Xiong et al., "Kinetic Analysis of the Interaction of Cidofovir Diphosphate with Human Cytomegalovirus DNA Polymerase", 51:1563-1567, BIOCHEM PHARM, 1996
	Yu et al, "Synthesis and Antiviral Activity of Methyl Derivatives of 9-[2-(Phosphonomethoxy)ethyl]guanine", 35:2958-2969, J MED CHEM, 7-Aug-1992
	Yuan et al., "Cyclic HPMPC: A Chemically Stable Intracellular Prodrug of HPMPC", 41:30 (Poster), AAPS Western Regional Meeting, San Jose, CA, March 27 - 28, 1995
	van Wijk et al., "Synthesis, characterization and some properties of dideoxynucleoside analogs of citidine diphosphate diacylglycerol", 1165:45-52, BIOCHEM BIOPHYS ACTA, 1992

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